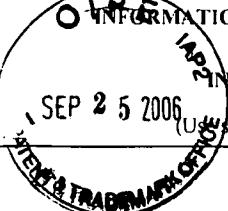


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	Applicant: MITANI, et al.	
	Filing Date: June 20, 2006	Group Art Unit: Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,672,040	June, 1987	Josephson			
	4,683,195	July, 1987	Mullis, et al.			
	4,683,202	July, 1987	Mullis			
	4,800,159	January, 1989	Mullis, et al.			
	4,849,336	July, 1989	Miyoshi, et al.			
	5,512,439	April, 1996	Hornes, et al.			
	5,712,124	January, 1998	Walker			
	5,824,517	October, 1998	Cleuziat, et al.			
	6,046,807	April, 2000	Chandler			
	6,063,603	May, 2000	Davey, et al.			
	6,057,107	May, 2000	Fulton			
	6,366,354	April, 2002	Chandler			
	6,420,539	July, 2002	Kramer, et al.			
	2002/168676	November, 2002	Notomi, et al.			
	2003/73081	April, 2003	Mukai, et al.			
	6,617,106	September, 2003	Benner			
	2003/207292	November, 2003	Notomi, et al.			
	2004/038253	February 2004	Nagamine			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	59-93099	May, 1984	Japan			Abstract	
	59-148798	August, 1984	Japan				
	59-204200	November, 1984	Japan				
	0 320 308	June, 1989	EPO				
	4-501959	April, 1992	Japan				

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7-6986	January, 1995	Japan				
95/12689	May, 1995	WIPO				
95/25180	September, 1995	WIPO				
7-114718	December, 1995	Japan				
9-504699	May, 1997	Japan				
2650159	May, 1997	Japan				
2710159	October, 1997	Japan				
10-257900	September, 1998	Japan				Abstract
99/06591	February, 1999	WIPO				
99/09211	February, 1999	WIPO				
99/10369	March, 1999	WIPO				
99/54455	October, 1999	WIPO				
00/28082	May, 2000	WIPO				
2000-245460	September, 2000	Japan				
1 041 160	October, 2000	EPO				
00/63691	October, 2000	WIPO				
2000-300265	October, 2000	Japan				
1 072 678	January, 2001	EPO				
01/034838	May, 2001	WIPO				
01/077317	October, 2001	WIPO				
1 158 047	November, 2001	EPO				
02/16639	February, 2002	WIPO				
02/24902	March, 2002	WIPO				
1 327 679	July, 2003	EPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Lerrick, James W., "Message Amplification Phenotyping (MAPping) – principles, practice and potential", TIBTECH May 1992, vol. 10, 146-152
		Sambrook, et al., "Conditions for Hybridization of Oligonucleotide Probes", Molecular Cloning, 2 nd edition, Cold Spring Harbor Laboratory Press, pp. 11.45-11.57, 1989
		Horlacher, et al., "Recognition by viral and cellular DNA polymerases of nucleosides bearing bases with nonstandard

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---------------------------------	----------------------------

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		hydrogen bonding patterns", Proc. Natl. Acad. Sci. USA, vol. 92, pp. 6329-6333, July 1995
		Sismour, et al., "First PCR amplification of DNA containing a non-standard base pair", Biochemistry, vol. 42, no. 28, p. 8598, 2003
		Lutz, et al., "Recognition of a Non-Standard Base Pair by Thermostable DNA Polymerases", Bioorganic & Medicinal Chemistry Letters 8, pp. 1149-1152, 1998
		Gotoh, et al., "Rapid method for detection of point mutations using mismatch binding protein (MutS) and an optical biosensor", Genetic Analysis: Biomolecular Engineering, 14, pp. 47-50, 1997
		Deng, et al., Site-Directed Mutagenesis of Virtually any plasmid by Eliminating a Unique Site", Analytical Biochemistry 200, pp. 81-88, 1992
		Nakamaye, et al., "Inhibition of restriction endonuclease Nci I cleavage by phosphorothioate groups and its application to oligonucleotide-directed mutagensis", Nucleic Acids Research, vol. 14, no. 24, pp. 9679-9698, 1986
		Diaz, et al., "PCR-Mediated Chemical Mutagenesis of Cloned Duplex DNAs", BioTechniques, vol. 11, no. 2, pp. 204-211, 1991
		Radman, et al., "Mismatch Repair in <i>ESCHERICHIA COLI</i> ", Ann. Rev. Genet., 20, pp. 523-538, 1986
		Radman, et al., "The High Fidelity of DNA Duplication", Scientific American, pp. 24-30, August 1988
		Modrich, Paul, "Methyl-directed DNA Mismatch Correction", The Journal of Biological Chemistry, vol. 264, no. 12, pp. 6597-6600, 1989
		Lahue, et al., PDNA Mismatch Correction in a Defined System", Science, vol. 245, pp. 160-164, July 1989
		Jiricny, et al., "Mismatch-containing oligonucleotide duplexes bound by the <i>E.coli mutS</i> -encoded protein", Nucleic Acids Research, vol. 16, no. 16, pp. 7843-7853, 1988
		Su, et al., "Mispair Specificity of Methyl-directed DNA Mismatch Correction <i>in Vitro</i> ", The Journal of Biological Chemistry, vol. 263, no. 14, pp. 6829-6835, May 1988
		Lahue, et al., "Methyl-directed DNA mismatch repair in <i>Escherichia coli</i> ", Mutation Research, 198, pp. 37-43, 1988
		Dohet, et al., "Large non-homology in heteroduplex DNA is processed differently than single base pair mismatches", Mol Gen Gent, 206, pp. 181-184, 1987
		Jones, et al., "Repair of a Mismatch is Influenced by the Base composition of the Surrounding Nucleotide Sequence", Genetics, 115, pp. 605-610, April 1987
		Lu, et al., "Repair of Single Base-Pair Transversion Mismatches of <i>Escherichia coli</i> <i>in Vitro</i> : Correction of Certain A/G Mismatches Is Independent of <i>dam</i> Methylation and Host <i>mutHLS</i> Gene Functions", Genetics, 118, pp. 593-600, April 1988
		Haber, et al., "Nucleotide Sequence of the <i>Salmonella typhimurium mutS</i> Gene Required for Mismatch Repair: Homology of MutS and HexA of <i>Streptococcus pneumoniae</i> ", Journal of Bacteriology, vol. 170, no. 1, pp. 197-202, January 1988
		Pang, et al., "Identification and Characterization of the <i>mutL</i> and <i>mutS</i> Gene Products of <i>Salmonella typhimurium</i> LT2", Journal of Bacteriology, vol. 163, no. 3, pp. 1007-1015, September 1985
		Priebe, et al., "Nucleotide Sequence of the <i>hexA</i> Gene for DNA Mismatch Repair in <i>Streptococcus pneumoniae</i> and

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---------------------------------	----------------------------

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		Homology of <i>hexA</i> to <i>mutS</i> of <i>Escherichia coli</i> and <i>salmonella typhimurium</i> ", Journal of Bacteriology, vol. 170, no. 1, pp. 190-196, January 1988
		Smith, et al. Mutation detection with MutH, MutL, and MutS mismatch repair proteins, Proc. Natl. Acad. Sci. USA, vol. 93, pp. 4374-4379, April 1996
		Au, et al., "Initiation of Methyl-directed Mismatch Repair", The Journal of Biological Chemistry, vol. 267, no. 17, pp 12142-12148, June 1992
		Clark, et al., "Functional Interaction of Proliferating Cell Nuclear Antigen with HSH2-MSH6 and MSH2-MSH3 Complexes", The Journal of Biological Chemistry, vol. 275, no 47, pp. 36498-36501, November 2000

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